

**OXFORD CAMBRIDGE AND RSA EXAMINATIONS**

**Advanced GCE**

**INFORMATION AND COMMUNICATIONS TECHNOLOGY 2517**

ICT Systems and Systems Management

Tuesday **24 JANUARY 2006** Morning 1 hour 30 minutes

No additional materials are required.  
Candidates answer on the question paper.

Candidate Name	Centre Number	Candidate Number										
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**TIME** 1 hour 30 minutes

**INSTRUCTIONS TO CANDIDATES**

- Write your name in the space above.
- Write your Centre number and candidate number in the boxes above.
- Answer **all** the questions.
- Write your answers, in blue or black ink, in the spaces on the question paper.
- Read each question carefully and make sure you know what you have to do before starting your answer.

**INFORMATION FOR CANDIDATES**

- The number of marks is given in brackets [ ] at the end of each question or part question.
- The total number of marks for this paper is 90, of which 4 marks are allocated to the assessment of the quality of written communication.
- You will be awarded marks for the quality of written communication where an answer requires a piece of extended writing.
- No marks will be awarded for using brand names of software packages or hardware.

FOR EXAMINER'S USE		
<b>1</b>		<b>16</b>
<b>2</b>		<b>17</b>
<b>3</b>		<b>34</b>
<b>4</b>		<b>9</b>
<b>5</b>		<b>10</b>
<b>QWC</b>		<b>4</b>
<b>TOTAL</b>		<b>90</b>

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**This question paper consists of 14 printed pages, 1 lined page and 1 blank page.**

1 A company sells a range of goods to the public. The company has a Head Office and several stores around the country. The goods that the stores sell are described in a catalogue. Customers can go to a store and buy an item that is shown in the catalogue if it is in stock, or they can order the item using the Internet.

(a) The company has many internal resources.

(i) Give **two** accommodation resources relevant to this company.

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(ii) Give **two** human resources relevant to this company.

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(iii) Give **two** technological resources relevant to this company.

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(b) When ordering on the Internet data and information are exchanged.

(i) Define the terms 'data' and 'information'.

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(ii) Using an example from this ordering process show how data differs from information.

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(c) For each of the following give an example of information that could be exchanged and state its purpose:

(i) between the store and the customer

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(ii) between the store and Head Office

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(b) The project team decide to create custom-written software for a new computer-based information system which will be used by the customers in the stores.

(i) Describe the steps involved in producing this software.

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(ii) Give the advantages and disadvantages of producing a custom-written solution rather than using an off-the-shelf solution.

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(c) The new system will be installed into the stores for the customers to use. Two implementation methods are considered: a phased installation or a pilot installation.

(i) Describe phased and pilot installations.

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(ii) Choose **one** of the methods and give your reasons for choosing it for this application.

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5 (a) The company employs buyers who travel all over the world looking for bargains to sell in the stores. The buyers use a nomadic network environment.

(i) Describe the characteristics of a nomadic network environment.

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(ii) Give **two** benefits for the buyers of using a nomadic network environment.

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